Horst Marschall

List of Publications by Year
in descending order

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93	4,652	87888	102487
papers	citations	38 h-index	66 g-index

102	102	102	3158
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Development of a synorogenic composite sill at deep structural levels of a magmatic arc (Odenwald,) Tj ETQq1 1 0.784314 rgBT /Overlo Structural Geology, 2022, 155, 104525.	2.3	2
2	Boron isotopes of white mica and tourmaline in an ultra-high pressure metapelite from the western Tianshan, China: dehydration and metasomatism during exhumation of subducted ocean-floor sediments. Contributions To Mineralogy and Petrology, 2022, 177, 1.	3.1	4
3	Fluidâ€Mediated Mass Transfer Between Mafic and Ultramafic Rocks in Subduction Zones. Geochemistry, Geophysics, Geosystems, 2022, 23, .	2.5	9
4	Tourmaline Reference Materials for the In Situ Analysis of Oxygen and Lithium Isotope Ratio Compositions. Geostandards and Geoanalytical Research, 2021, 45, 97-119.	3.1	10
5	Accurate correction for the matrix interference on laser ablation MC-ICPMS boron isotope measurements in CaCO₃ and silicate matrices. Journal of Analytical Atomic Spectrometry, 2021, 36, 1607-1617.	3.0	7
6	Development of a synorogenic composite sill at deep structural levels of a continental arc (Odenwald, Germany). Part 1: Sederholm-type emplacement portrayed by contact melt in shrinkage cracks. Tectonophysics, 2021, 805, 228774.	2.2	2
7	Metasomatism and deformation of block-in-matrix structures in Syros: The role of inheritance and fluid-rock interactions along the subduction interface. Lithos, 2021, 386-387, 105996.	1.4	17
8	Silicate melt inclusions in the new millennium: A review of recommended practices for preparation, analysis, and data presentation. Chemical Geology, 2021, 570, 120145.	3.3	40
9	The genesis and age of the Grunehogna Granite and Rbâ€“Sr and Smâ€“Nd chemistry of the Annandagstoppane Granite, Ahlmanryggen, Dronning Maud Land, Antarctica. Polar Science, 2021, 30, 100717.	1.2	3
10	The role of sulfides in the chalcophile and siderophile element budget of the subducted oceanic crust. Geochimica Et Cosmochimica Acta, 2021, 304, 191-215.	3.9	9
11	Host-influenced geochemical signature in the parasitic foraminifera <i>Hyrrokkin sarcophaga</i>. Biogeosciences, 2021, 18, 4733-4753.	3.3	3
12	Fossil records of early solar irradiation and cosmolocation of the CAI factory: A reappraisal. Science Advances, 2021, 7, eabg8329.	10.3	4
13	High-Temperature Processes: Is it Time for Lithium Isotopes?. Elements, 2020, 16, 247-252.	0.5	12
14	Iron and oxygen isotope systematics during corrosion of iron objects: a first approach. Archaeological and Anthropological Sciences, 2020, 12, 1.	1.8	3
15	The roles of mechanical mixing and fluid transport in the formation of reaction zones in subduction-related mÃ©lange: Evidence from highly siderophile elements. Chemical Geology, 2019, 525, 96-111.	3.3	9
16	Questioning Fe isotopes as a provenance tool: Insights from bog iron ores and alternative applications in archeometry. Journal of Archaeological Science, 2019, 101, 52-62.	2.4	14
17	Melting of sediments in the deep mantle produces saline fluid inclusions in diamonds. Science Advances, 2019, 5, eaau2620.	10.3	16
18	Isotopic Compositions of Sulfides in Exhumed Highâ€Pressure Terranes: Implications for Sulfur Cycling in Subduction Zones. Geochemistry, Geophysics, Geosystems, 2019, 20, 3347-3374.	2.5	42

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19	Closing the loop: Subducted eclogites match thallium isotope compositions of ocean island basalts. Geochimica Et Cosmochimica Acta, 2019, 250, 130-148.	3.9	20
20	Corrigendum to: â€˜Mid-ocean Ridge Serpentinite in the Puerto Rico Trench: from Seafloor Spreading to Subductionâ€™. Journal of Petrology, 2019, 60, 2547-2547.	2.8	0
21	The water and fluorine content of 4 Vesta. Geochimica Et Cosmochimica Acta, 2019, 266, 568-581.	3.9	21
22	Detrital garnet geochronology: Application in tributaries of the French Broad River, Southern Appalachian Mountains, USA. Geology, 2019, 47, 1189-1192.	4.4	10
23	Emplacement and Highâ€Temperature Evolution of Gabbros of the 16.5Â°N Oceanic Core Complexes (Midâ€Atlantic Ridge): Insights Into the Compositional Variability of the Lower Oceanic Crust. Geochemistry, Geophysics, Geosystems, 2019, 20, 46-66.	2.5	19
24	Diffusion of Zr, Hf, Nb and Ta in rutile: effects of temperature, oxygen fugacity, and doping level, and relation to rutile point defect chemistry. Physics and Chemistry of Minerals, 2019, 46, 311-332.	0.8	25
25	Laser-ablation MC-ICP-MS lead isotope microanalysis down to 10 Î¼m: application to K-feldspar inclusions within zircon. Journal of Analytical Atomic Spectrometry, 2018, 33, 195-204.	3.0	10
26	Thallium isotope systematics in volcanic rocks from St. Helena â€“ Constraints on the origin of the HIMU reservoir. Chemical Geology, 2018, 476, 292-301.	3.3	24
27	Melting phlogopite-rich MARID: Lamproites and the role of alkalis in olivine-liquid Ni-partitioning. Chemical Geology, 2018, 476, 429-440.	3.3	42
28	Boron Isotopes in the Earth and Planetary Sciencesâ€”A Short History and Introduction. Advances in Isotope Geochemistry, 2018, , 1-11.	1.4	11
29	Boron Isotope Analysis of Geological Materials. Advances in Isotope Geochemistry, 2018, , 13-31.	1.4	14
30	Boron Isotopes in the Ocean Floor Realm and the Mantle. Advances in Isotope Geochemistry, 2018, , 189-215.	1.4	49
31	Generation of alkaline magmas in subduction zones by partial melting of mÃ©lange diapirsâ€”An experimental study. Geology, 2018, 46, 343-346.	4.4	77
32	Arc-like magmas generated by mÃ©lange-peridotite interaction in the mantle wedge. Nature Communications, 2018, 9, 2864.	12.8	90
33	Extent, thickness and erosion of the Jurassic continental flood basalts of Dronning Maud Land, East Antarctica: A low-T thermochronological approach. Gondwana Research, 2018, 61, 222-243.	6.0	7
34	Boron Stable Isotopes. Encyclopedia of Earth Sciences Series, 2018, , 162-166.	0.1	2
35	Early accretion of water and volatile elements to the inner Solar System: evidence from angrites. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2017, 375, 20160209.	3.4	51
36	Angrite meteorites record the onset and flux of water to the inner solar system. Geochimica Et Cosmochimica Acta, 2017, 212, 156-166.	3.9	33

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37	Geochemical evidence for mÃ©lange melting in global arcs. Science Advances, 2017, 3, e1602402.	10.3	155
38	The boron and lithium isotopic composition of mid-ocean ridge basalts and the mantle. Geochimica Et Cosmochimica Acta, 2017, 207, 102-138.	3.9	195
39	Changes in tourmaline composition during magmatic and hydrothermal processes leading to tin-ore deposition: The Cornubian Batholith, SW England. Ore Geology Reviews, 2017, 83, 215-234.	2.7	61
40	Fluorine and chlorine in mantle minerals and the halogen budget of the Earthâ€™s mantle. Contributions To Mineralogy and Petrology, 2017, 172, 1.	3.1	33
41	Fluid-induced breakdown of white mica controls nitrogen transfer during fluidâ€“rock interaction in subduction zones. International Geology Review, 2017, 59, 702-720.	2.1	19
42	Mid-ocean Ridge Serpentinite in the Puerto Rico Trench: from Seafloor Spreading to Subduction. Journal of Petrology, 2017, 58, 1729-1754.	2.8	28
43	Volatile Addition to the Inner Solar System Between 4.566 and 4.564 Ga: Evidence from Angrite Meteorites. Microscopy and Microanalysis, 2016, 22, 1802-1803.	0.4	0
44	Fluid-mediated mass transfer from a paleosubduction channel to its mantle wedge: Evidence from jadeitite and related rocks from the Guatemala Suture Zone. Lithos, 2016, 258-259, 15-36.	1.4	23
45	Tectonic settings of continental crust formation: Insights from Pb isotopes in feldspar inclusions in zircon. Geology, 2016, 44, 819-822.	4.4	20
46	Prolonged Ediacaranâ€“Cambrian Metamorphic History and Short-lived High-pressure Granulite-facies Metamorphism in the H.U. Sverdrupfjella, Dronning Maud Land (East Antarctica): Evidence for Continental Collision during Gondwana Assembly. Journal of Petrology, 2016, 57, 185-228.	2.8	40
47	Boron Stable Isotopes. Encyclopedia of Earth Sciences Series, 2016, , 1-6.	0.1	5
48	Extreme Magnesium Isotope Fractionation at Outcrop Scale Records the Mechanism and Rate at which Reaction Fronts Advance. Journal of Petrology, 2015, 56, 33-58.	2.8	53
49	Boron Isotope Analysis of Silicate Glass with Very Low Boron Concentrations by Secondary Ion Mass Spectrometry. Geostandards and Geoanalytical Research, 2015, 39, 31-46.	3.1	28
50	Early accretion of water in the inner solar system from a carbonaceous chondriteâ€“like source. Science, 2014, 346, 623-626.	12.6	128
51	Boron isotopes in tourmaline as a tracer of metasomatic processes in the Bamble sector of Southern Norway. Contributions To Mineralogy and Petrology, 2014, 168, 1.	3.1	19
52	Effects of fluidâ€“rock interaction on 40Ar/39Ar geochronology in high-pressure rocks (Sesia-Lanzo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	3.9	58
53	Development and evolution of detachment faulting along 50 km of the Midâ€Atlantic Ridge near 16.5Â°N. Geochemistry, Geophysics, Geosystems, 2014, 15, 4692-4711.	2.5	32
54	Mesoproterozoic subduction under the eastern edge of the Kalahari-Grunehogna Craton preceding Rodinia assembly: The Ritscherflya detrital zircon record, Ahlmannryggen (Dronning Maud Land,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 5	2.7	41

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55	Trace element systematics of tourmaline in pegmatitic and hydrothermal systems from the Variscan Schwarzwald (Germany): The importance of major element composition, sector zoning, and fluid or melt composition. Chemical Geology, 2013, 344, 73-90.	3.3	84
56	Diffusion-induced fractionation of niobium and tantalum during continental crust formation. Earth and Planetary Science Letters, 2013, 375, 361-371.	4.4	55
57	Distinguishing East and West Antarctic sediment sources using the Pb isotope composition of detrital K-feldspar. Chemical Geology, 2012, 292-293, 88-102.	3.3	38
58	Arc magmas sourced from mÃ©lange diapirs in subduction zones. Nature Geoscience, 2012, 5, 862-867.	12.9	428
59	Trace-element partitioning and boron isotope fractionation between white mica and tourmaline. Canadian Mineralogist, 2011, 49, 165-176.	1.0	58
60	Metasomatic tourmaline in hybrid contact-bands between gneiss and peridotite in the Ulten zone of the Eastern Italian Alps: chemistry and boron isotopic composition. Canadian Mineralogist, 2011, 49, 245-261.	1.0	12
61	Variations of Li and Mg isotope ratios in bulk chondrites and mantle xenoliths. Geochimica Et Cosmochimica Acta, 2011, 75, 5247-5268.	3.9	252
62	Major-element and Li, Be compositional evolution of tourmaline in an S-type granite-pegmatite system and its country rocks: an example from Ikaria, Aegean Sea, Greece. Canadian Mineralogist, 2011, 49, 321-340.	1.0	20
63	Tourmaline Isotopes: No Element Left Behind. Elements, 2011, 7, 313-319.	0.5	196
64	Characterization of magma from inclusions in zircon: Apatite and biotite work well, feldspar less so. Geology, 2011, 39, 863-866.	4.4	73
65	Boron and boron isotope systematics in the peralkaline IlÃmaussaq intrusion (South Greenland) and its granitic country rocks: A record of magmatic and hydrothermal processes. Lithos, 2011, 125, 51-64.	1.4	42
66	Tourmaline: an ideal indicator of its host environment. Canadian Mineralogist, 2011, 49, 1-16.	1.0	234
67	A secondary ion mass spectrometry (SIMS) re-evaluation of B and Li isotopic compositions of Cu-bearing elbaite from three global localities. Mineralogical Magazine, 2011, 75, 2485-2494.	1.4	30
68	Metamorphic ultrahigh-pressure tourmaline: Structure, chemistry, and correlations to P-T conditions. American Mineralogist, 2010, 95, 1-10.	1.9	49
69	The Annandagstoppane Granite, East Antarctica: Evidence for Archaean Intracrustal Recycling in the Kaapvaal-Grunehogna Craton from Zircon O and Hf Isotopes. Journal of Petrology, 2010, 51, 2277-2301.	2.8	68
70	On the occurrence and boron isotopic composition of tourmaline in (ultra)high-pressure metamorphic rocks. Journal of the Geological Society, 2009, 166, 811-823.	2.1	78
71	Metasomatic formation and petrology of blueschist-facies hybrid rocks from Syros (Greece): Implications for reactions at the slabâ€“mantle interface. Lithos, 2009, 107, 53-67.	1.4	76
72	Lithium, boron and chlorine as tracers for metasomatism in high-pressure metamorphic rocks: a case study from Syros (Greece). Mineralogy and Petrology, 2009, 95, 291-302.	1.1	45

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73	Mechanisms of metasomatic reactions. Mineralogy and Petrology, 2009, 95, 159-161.	1.1	2
74	Experimental boron isotope fractionation between tourmaline and fluid: confirmation from in situ analyses by secondary ion mass spectrometry and from Rayleigh fractionation modelling. Contributions To Mineralogy and Petrology, 2009, 158, 675-681.	3.1	65
75	40Ar/39Ar dating of tourmaline from metamorphic rocks of the Kokchetav massif, Kazakhstan. Doklady Earth Sciences, 2009, 424, 168-170.	0.7	24
76	Detrital, metamorphic and metasomatic tourmaline in high-pressure metasediments from Syros (Greece): intra-grain boron isotope patterns determined by secondary-ion mass spectrometry. Contributions To Mineralogy and Petrology, 2008, 155, 703-717.	3.1	58
77	Sodic Pyroxene and Sodic Amphibole as Potential Reference Materials for In Situ Lithium Isotope Determinations by SIMS. Geostandards and Geoanalytical Research, 2008, 32, 295-310.	3.1	16
78	Fluorapatite-monazite relationships in granulite-facies metapelites, Schwarzwald, southwest Germany. Mineralogical Magazine, 2007, 71, 223-234.	1.4	30
79	The lithium isotopic composition of orogenic eclogites and deep subducted slabs. Earth and Planetary Science Letters, 2007, 262, 563-580.	4.4	192
80	Squeezing out the slab â€" modelling the release of Li, Be and B during progressive high-pressure metamorphism. Chemical Geology, 2007, 239, 323-335.	3.3	134
81	Boron isotope and light element sector zoning in tourmaline: Implications for the formation of B-isotopic signatures. Chemical Geology, 2007, 238, 141-148.	3.3	36
82	Tetrahedrally coordinated boron in tourmalines from the liddicoatite-elbaite series from Madagascar: Structure, chemistry, and infrared spectroscopic studies. American Mineralogist, 2006, 91, 1847-1856.	1.9	54
83	Partitioning and budget of Li, Be and B in high-pressure metamorphic rocks. Geochimica Et Cosmochimica Acta, 2006, 70, 4750-4769.	3.9	93
84	Re-examination of the boron isotopic composition of tourmaline from the Lavicky granite, Czech Republic, by secondary ion mass spectrometry: back to normal. Critical comment on â€œChemical and boron isotopic compositions of tourmaline from the Lavicky leucogranite, Czech Republicâ€• by S.-Y. Jiang et al., Geochemical Journal, 37, 545-556, 2003. Geochemical Journal, 2006, 40, 631-638.	1.0	31
85	Syros Metasomatic Tourmaline: Evidence for Very High-Â11B Fluids in Subduction Zones. Journal of Petrology, 2006, 47, 1915-1942.	2.8	130
86	Chemical analysis of high-pressure metamorphic rocks by PGNAA: Comparison with results from XRF and solution ICP-MS. Journal of Radioanalytical and Nuclear Chemistry, 2005, 265, 339-348.	1.5	17
87	Evolution of a tourmaline-bearing lawsonite eclogite from the ElekdaÄŸ area (Central Pontides, N) Tj ETQq1 1 0.784314 rgBT /Overloc Mineralogy and Petrology, 2004, 148, 409-425.	3.1	71
88	The low-boron contest: minimising surface contamination and analysing boron concentrations at the ng/g-level by secondary ion mass spectrometry. Mineralogy and Petrology, 2004, 81, 265-278.	1.1	37
89	Metamorphic Na- and OH-rich disordered dravite with tetrahedral boron, associated with omphacite, from Syros, Greece: chemistry and structure. European Journal of Mineralogy, 2004, 16, 817-823.	1.3	35
90	P-T Evolution of a Variscan Lower-Crustal Segment: a Study of Granulites from the Schwarzwald, Germany. Journal of Petrology, 2003, 44, 227-253.	2.8	57

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91	Li abundances in eclogite minerals: a clue to a crustal or mantle origin?. Contributions To Mineralogy and Petrology, 2002, 143, 587-601.	3.1	43
92	Li abundances in eclogite minerals: a clue to a crustal or mantle origin?. Contributions To Mineralogy and Petrology, 2002, 144, 128-130.	3.1	3
93	Sulfur loss from subducted altered oceanic crust and implications for mantle oxidation. Geochemical Perspectives Letters, 0, , 36-41.	5.0	36